



ENERGY ASSURANCE DAILY

Monday Evening, October 17, 2016

Electricity

Strong Storms Knock Out Power to Electric Customers in Pacific Northwest October 14–17

Strong storms producing heavy rains and high winds knocked out power to nearly 170,000 U.S. electric customers across the Pacific Northwest beginning on Friday with impacts continuing into Sunday. Wind gusts of up to 80 mph uprooted trees and downed powerlines across Oregon, Washington, and British Columbia. By early afternoon on Sunday, utilities had restored power to nearly all customers. In Canada, BC Hydro, the hardest hit utility with 284,417 customer outages, had about 400 powerline technicians and contractors—along with vegetation management crews, flaggers, wire guards, and damage assessors—working overnight Friday to restore power to more than 95,000 customers by 8:00 a.m. PDT Saturday. On Monday, BC Hydro’s President and CEO also said that vandals shot out a major transmission line during the storm on Friday night, which contributed to a 22-hour outage to industrial customers in northwest British Columbia. The table below shows total affected customers and the latest reported outages by utility. The “Affected” column shows the total count of customers that lost power at one point or another over the course of the storm for each utility. These outages may not have occurred concurrently and are not the same as peak outages.

Pacific Northwest Customer Power Outages			
October 14–17, 2016			
Electric Utility	State	Affected	Latest Reported
Portland General Electric	OR	70,000	65
Pacific Power	OR	31,116	0
Puget Sound Energy	WA	44,000	61
Seattle City Light	WA	15,000	4
Snohomish PUD	WA	9,000	0

Sources:

<https://twitter.com/bchydroceo/status/787664909433647104>
<https://www.portlandgeneral.com/outages/outage-list>
<https://twitter.com/portlandgeneral>
<https://www.facebook.com/pacificpower>
<https://www.pacificpower.net/outage>
https://twitter.com/PacificPower_OR
http://pse.com/accountsandservices/ServiceAlert/Pages/Outage-Map.aspx?WT.mc_id=1015
<http://www.seattle.gov/light/sysstat/>
<https://twitter.com/SEACityLight>
<https://www.facebook.com/snopud>
<http://outagemap.snopud.com/>
<https://twitter.com/snopud>
<https://www.bchydro.com/power-outages/app/outage-list.html>
<https://www.bchydro.com/news/conservation/2016/october-storm-trio.html>
<https://www.facebook.com/bchydro>
<http://www.seattlepi.com/local/article/Seattle-soaked-wind-just-getting-started-ahead-9971741.php>

Update: Exelon's 1,131 MW Byron Nuclear Unit 2 in Illinois at Full Power by October 16

On the morning of October 15 the unit was operating at 81 percent after restarting and ramping up to 50 percent on October 14. The unit was shut on October 12 to investigate low water level indications in the unit's steam generators.

<http://www.nrc.gov/reading-rm/doc-collections/event-status/reactor-status/2016/>

Reuters, 17:24 October 14, 2016

NMC's 522 MW Prairie Island Nuclear Unit 1 in Minnesota Reduced to 2 Percent by October 15

On the morning of October 14 the unit was operating at full power.

<http://www.nrc.gov/reading-rm/doc-collections/event-status/reactor-status/2016/>

Calpine's 880 MW Delta Energy Center Gas-fired Unit in California Reduced by October 16

The unit entered an unplanned curtailment of 327 MW.

<http://content.caiso.com/unitstatus/data/unitstatus201610161515.html>

Calpine's 593 MW Metcalf Gas-fired Unit in California Reduced by October 15

The unit entered an unplanned curtailment of 308 MW.

<http://content.caiso.com/unitstatus/data/unitstatus201610151515.html>

NCPA's 247 MW Collierville Hydro Units 1, 2 in California Shut by October 14

The unit entered an unplanned outage.

<http://content.caiso.com/unitstatus/data/unitstatus201610141515.html>

Apex Power's 401 MW Panoche Gas-fired Unit in California Reduced by October 14

The unit entered an unplanned curtailment of 219 MW.

<http://content.caiso.com/unitstatus/data/unitstatus201610141515.html>

ERCOT to Keep NRG's 400 MW Greens Bayou Natural Gas-fired Plant Online through July 2017

The Electric Reliability Council of Texas (ERCOT) on Monday said that per new rules it will continue its agreement with NRG Texas Power to keep its 400 MW Greens Bayou Unit 5 online through July 2017. On October 12, a new set of rules went into effect, which changed the criteria used to determine whether specific generation resources are needed for transmission reliability purposes. ERCOT determines if removing a particular resource or plant will affect transmission system reliability once the owners notify the operator of plans to stop operations at the plant. Reuters, 13:33 October 17, 2016

Update: North Carolina DEQ Evaluates Minimal Release of Coal Ash from Duke Energy's H.F. Lee Power Plant October 15

North Carolina Department of Environmental Quality (DEQ) on Saturday evaluated conditions at Duke Energy's H.F. Lee facility and determined that a minimal amount of coal ash—described as less than would fit in a pickup truck—was released from an inactive basin. State dam safety and water quality experts inspected basins at the Wayne County site to evaluate any potential environmental impact. Flood waters around the basin have receded, allowing environmental officials to examine the site on foot. Flooding from Hurricane Matthew led to some erosion of the inactive basin but the structure remains intact. The DEQ has mandated that the H.F. Lee plant be fully excavated because it is located in the floodplain.

<https://deq.nc.gov/press-release/environmental-department-evaluates-minimal-release-coal-ash>

<https://news.duke-energy.com/releases/duke-energy-update-on-h-f-lee-power-plant-in-goldsboro-n-c-4925769>

Avangrid Renewables' Resumes Work on 298 MW El Cabo Wind Farm in New Mexico

Avangrid Renewables' on Monday was resuming work on its El Cabo Wind Farm in Torrance County, New Mexico. The 56,000-acre project will be made up of more than 140 wind turbines. Construction first started in 2013 and last year, Avangrid acknowledged that the project had slowed while transmission-related constraints were addressed.

<http://www.evwind.es/2016/07/11/iberdrola-awards-gamesa-contract-to-supply-wind-turbines-for-its-el-cabo-wind-farm-in-the-united-states/56933>

<http://www.miamiherald.com/news/business/article108702622.html>

Enel Begins Construction on 300 MW Rock Creek Wind Farm in Missouri October 17

Enel S.p.A., through its renewable energy subsidiary Enel Green Power North America, Inc., on Monday started construction of the Rock Creek wind farm in Atchison County, Missouri. The new wind farm will have a total installed capacity of 300 MW and is expected to enter into service by the end of 2017. The facility's power and renewable energy credits will be sold under two separate bundled, long-term power purchase agreements with Kansas City Power & Light (KCP&L) and KCP&L Greater Missouri Operations Company (GMO).

<https://www.enel.com/en/media/press/d201610-enel-starts-construction-of-new-300-mw-wind-project-in-the-united-states-.html>

Petroleum

Citgo Reports Unit Startup at Its 175,940 b/d Lemont, Illinois Refinery October 16

Citgo Petroleum Corp reported a unit startup at its Lemont refinery on October 16, according to a filing with the Illinois Emergency Management Agency.

Reuters, 4:13 October 17, 2016

LyondellBasell Shuts Coker Unit, Hydrotreater at Its 263,776 b/d Houston, Texas Refinery after Fire October 15 – Sources

A small fire occurred in a delayed coker unit on Saturday morning at LyondellBasell's Houston refinery and was quickly extinguished, the company said late on Sunday. The 57,000 b/d coker and the 49,000 b/d hydrotreater were shut on Saturday due to the fire, Gulf Coast market sources said. No injuries were reported, the sources said and no date had been set for the restart of the units.

Reuters, 13:44 October 17, 2016

Reuters, 14:34 October 16, 2016

Total Reports Process Upset at Its 225,500 b/d Port Arthur, Texas Refinery October 15

Total SA reported flaring due to a process upset at Unit 821 at its Port Arthur refinery on October 15.

Reuters, 21:40 October 16, 2016

Alon Reports Emissions at Its 73,000 b/d Big Spring, Texas Refinery October 17

Alon reported emissions from the alkylation unit, crude light ends unit, propylene recovery unit, diesel hydrotreater (DHT), and fluid catalytic cracking unit (FCCU) at its Big Spring refinery, according to a filing with the Texas Commission on Environmental Quality.

Reuters, 1:17 October 17, 2016

Natural Gas

Nothing to report.

Other News

Shell Pipeline Announces Open Season for 107,000 b/d Falcon Ethane Pipeline System in Pennsylvania, Ohio, West Virginia October 17

Shell Pipeline Company LP on Monday announced that it will launch a binding open season for transportation commitments on its new 94-mile Falcon Ethane Pipeline System which will be constructed in Southwestern Pennsylvania and extending into West Virginia and Ohio. Shell anticipates the proposed Falcon pipeline will connect three major ethane source points within Pennsylvania and Ohio, in the rich gas portions of the Marcellus and Utica shale reservoirs, to a petrochemical plant in Monaca, Pennsylvania. Construction of the pipeline is scheduled to begin in late 2018. The binding open season is scheduled to end November 18.

<http://www.shell.us/business-customers/shell-pipeline.html#vanity-aHR0cDovL3d3dy5zaGVsbC51cy9waXB1bGluZQ>

NNPC Crude Pipeline Set on Fire in Nigeria's Niger Delta – Military Spokesman

Attackers set fire to a crude oil pipeline in Nigeria's restive Niger Delta, a military spokesman said on Saturday, the second strike in the country's oil hub within a day. A militant group had earlier said it attacked the pipeline, which is run by the state oil firm NNPC and a local private firm, Shoreline, near Ughelli on Friday night. There was no immediate information on the impact of the latest incidents on Nigeria's oil production. Attacks have reduced output by 700,000 b/d since the start of the year. Crude sales make up about 70 percent of national income and the vast majority of that oil comes from the southern swampland.

Reuters, 13:50 October 15, 2016

Qatar's Barzan Gas Project Startup Delayed by Gas Leak – Sources

Qatar delayed the start-up of its Barzan Gas project because of a leak discovered in a gas pipeline, two sources said. After repeated delays, the project's first phase was due to start in November, boosting Qatari gas production capacity by up to 2 Bcf/d when it reached capacity in the first half of 2017. A leak in one of the project's upstream pipelines was discovered in recent weeks, the sources said. The source declined to comment on the size of the leak or whether it had been fixed. The \$10 billion project is a RasGas-operated joint venture between Qatar Petroleum and ExxonMobil.

<http://finance.yahoo.com/news/gas-leak-delays-start-qatars-103358324.html>

Energy Prices

U.S. Oil and Gas Prices			
October 17, 2016			
	Today	Week Ago	Year Ago
CRUDE OIL			
West Texas Intermediate U.S.	49.92	49.71	47.25
\$/Barrel			
NATURAL GAS			
Henry Hub	3.13	2.99	2.49
\$/Million Btu			

Source: Reuters

Links

This Week in Petroleum from the U.S. Energy Information Administration (EIA)

<http://www.eia.gov/oog/info/twip/twip.asp>

Updated every Wednesday.

Weekly Petroleum Status Report from EIA

http://www.eia.gov/oil_gas/petroleum/data_publications/weekly_petroleum_status_report/wpsr.html

Updated after 10:30 AM & 1:00 PM ET every Wednesday.

Natural Gas Weekly Update from EIA

<http://www.eia.gov/oog/info/ngw/ngupdate.asp>

Updated after 2:00 PM ET every Thursday.

ENERGY ASSURANCE DAILY

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<http://www.oe.netl.doe.gov/ead.aspx>

Please direct comments and questions to: ead@oe.netl.doe.gov